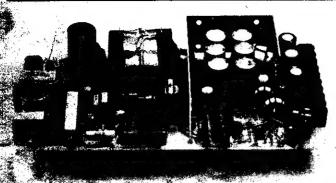
SERIES XL100 MULTIPLE OUTPUT SWITCHERS





1500

The XL100 Series of 4 output 100 was switching power supplies offers outstanding features, pricing and water.

Casioned for microprocessor by Atlandigations, the XL109 Will power Whichester disks, and by disks, tape cassettes and

The XL 100 is the XL 125 with the highest standard and is rated and in the XL 100 to ambient with no estimated heats inking. External teats inking or forced air can allow the XL 100 to provide the same ratings as the XL 125, as long as heats ink temperatures are kept below 90°C and semiconductor cases below 100°C under the worst-case system operating conditions.

STANDARD FEATURES

- Designed to meet VDE 0806 safety.
- Designed to meet VDE 0871 level A.
- Designed to meet FCC 20708 level B EMI.
- Designed to meet IEC 380 safety.
- Designed to meet CSA C22.2
 #154 safety.
- Designed to meet UL478 safety.
- 110VAC/220VAC user selectable input.
- Short circuit protection.
- Overvoltage protection (+5V output).
- Input surge current protection.
- 20KHz switching frequency (minimum).
- All-models are provided with percentail detect output.

SELECTION GUIDE							·	
Model Number	Output Vo	itages and Maxi + 12V	mum Current — 12V	-6V	+ 24V	+ 12 V	Rated Power	Max. Positive Current
XL100-3601	, 10A	4A	0.7A	0.7A		4	100M	14A
XL100-3602	10A	4A	0.7A		3A		100W	14A
XL100-3008	10A	4A	0.7A		Y	1.5A	100W	14A

To order models meeting British Telecomm safety specifications, order -3801, -3802 or -3803 instead of -3801, -3802 or -3603.

To order models with the VDE safety sticker affixed, order -3601V, -3602V or -3603V. Please consult the factory.

To order models with the input voltage set for 220 VAC, order -4601, -4602, -4603, -4801, -4802, -4803, -4601 V, -4602 V or -4603 V.

LOAD REGULATION

Load regulation depends strongly on how much power is drawn from each output and the minimum to maximum range of the current. The maximum current cannot be taken from all outputs simultaneously without possibly overheating the power supply or causing over-power shutdown.

		Otto Control			
Model Number	Output	Minimum	Maximum	Rippie	Tolerance
XL100-3601	+5V	2A	10A	50mV	±3%
The Life and B	+12V	A8.0	4A	80mV	±4%
	-12V	0A	0.7A	50mV	±5%
	-5V	0A	0.7A	25mV	±5%
XL100-3602	+5Ÿ	2A	10A	50mV	±3%
	+ 12V	0.4A	4A	50mV	+ 2%-6%
	-12V	0A	0.7A	80mV	±5%
	+24V	1.0A	3A	80mV	+8%-3%
XL100-3603	+5V	2A	10A	50mV	±3%
	+12V	A8.0	4A	50mV	±4%
	+12V	0.5A	1.5A	50mV	±6%
	-12V	OA .	0.7A	50mV	±5%

1) 50MHz bandwidth, peak to peak, measured differentially

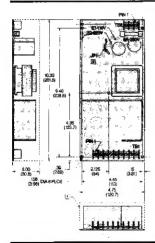
Parameter	Conditions	Limits	
Input Voltage	All rated load conditions	90-132VAC 180-264VAC User selectable	
Input Surge Current	115VAC, cold start, peak current	32A	
Input Frequency Range		47Hz to 440Hz	
Input Line Regulation	Low line to high line, full load	\pm 0.3% to all outputs	
Efficiency	115VAC, 100W output	65% minimum	
Output Power Range	50° ambient	20W to 100W	
Hold-up Time	110VAC, 100W output	22mSec minimum	
Adjustability	+5 output	4.8V to OVP trip point	
Overvoltage Protection Threshold	±5V output	6.25V ± 0.75V	
Temperature Coefficient of Outputs	All Outputs	±0.04%/°C maximum	
Safety Ground Leakage Current	240VAC, 60Hz	0.5mA maximum	
Power Limit Point	All line and load conditions	140W minimum	
Temperature Range	Operating ambient Storage ambient Maximum heatsink temperature Maximum semiconductor case temperature	0°C to +70°C -20°C to +85°C 90°C 100°C	
Temperature Derating	Free air connection	Derate linearly from rated power at 50°C to half rated power at 70°C ambient	
Aititude	Operating Non-operating	10,000 ft 30,000 ft	
Relative Humidity	Non-condensing	5% to 95%	
Vibration	Three principal axes 2G cycling or dwell type	5Hz to 60Hz at 3 minutes per octave	
Transient Response	+5 output, 5A to 10A load change	150mV peak transient setting to within 0.5% of regulation band 1mSec.	
	+ 12V and + 24 outputs, 2A to 4A load change	100mV peak transient setting to within 0.5% of regulation band 1mSec.	
Power Fail Detect	Maximum sinking current open collector output	30mA minimum	

T₁ will vary with line and load conditions.

 $T_2 \ge 10$ mS at low line and full load.

MECHANICAL SPECIFICATIONS

Dimensions are in inches and (mm). All tolerances are less than ± 0.03 inches (0.75 mm)



PIN CHARTS			
	XL100/3601	XL100/3602	XL100/3603
TB2 Term 1	AC Hot	AC Hot	AC Hot
Term 2	AC Ground	AC Ground	AC Ground
Term 3	AC Neutral/Hot	AC Neutral/Hot	AC Neutral/Hot
TB1 Term 1	P.F.D.	P.F.D.	P.F.D.
Term 2	– 12V	- 12V	- 12V
Term 3	+ 12V	+ 12V	+ 12V
Term 4	-5V	+24V	+ 12V
Term 5	Return	Return	Return
Term 6	Return	Return	Return
Term 7	Return	Return	Return
Term 8	+5V	+5V	+ 5V
Term 9	+5V	+5V	+5V

3. Dimensions for reference only.

- Dashed line indicates minimum clearance.
- Connect JP1 to E1 for 110V operation. Connect JP1 to E2 for 220V operation.

Boschert Incorporated 384 Santa Trinita Avenue Sunnyvale, California 94086 408/732-2440 TWX 910-339-9241



Connector Type ,IB1 is Beau Inc. P/N 72-5-09C TB2 is Beau Inc. P/N 72-5-03C 6-32 screws on 0.375 in. centers

Fuse Type 5A, 250VAC 3AE, Normal Blow

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